

WEST



Generate Collection

Print

L6: Entry 3 of 7

File: USPT

Oct 12, 1999

US-PAT-NO: 5964251

DOCUMENT-IDENTIFIER: US 5964251 A

TITLE: Chemically bonded multi-wall conduit

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reynolds; Kim A.	Berwyn	PA		
Marino; Charles P.	Philadelphia	PA		

US-CL-CURRENT: 138/137; 138/141, 138/146, 138/DIG.3, 138/DIG.7

ABSTRACT:

An improved conduit for transporting fuel and/or fuel vapor or a motion transmitting member in an automobile comprising an inner tube comprised of fluorocarbon polymeric material and having an inner surface for contacting and containing fluids or a motion transmitting member, and a chemically etched outer surface having a substantial portion of the fluorine of the fluorocarbon polymer substituted by a polar moiety. The conduit further includes an outer tube comprising an inner surface comprised of polymeric material containing sufficient polar groups such that hydrogen bonding at the interface between the outer surface of the inner tube and the inner surface of the outer tube prevents substantial relative separation of or movement between the inner and outer tubes.

23 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1